

Claims

- 5 1. A percussion mechanism for a repetitively hammering hand power tool -
preferably a drill hammer and/or percussion hammer - that has a striker (2),
movable axially forward and backward in a guide barrel (1), having a device (5)
that exerts pressure on the striker (2), by which the striker (2) is capable of being
set into a forward motion in the direction of a tool bit (4) that is insertable into the
hand power tool, characterized in that a blocking element (10) is provided, with
10 which the striker (2) is blockable in its forward motion; and that the striking
frequency of the striker (2) is adjustable by controlling the blocking time of the
blocking element (2).
- 15 2. The percussion mechanism in accordance with claim 1, characterized in
that the device exerting pressure on the striker (2) comprises a pressure reservoir
(5) that is fillable with a gas and that is located on the side of the striker (2)
diametrically opposite the tool bit (4).
- 20 3. The percussion mechanism in accordance with claim 2, characterized in
that the gas - preferably air - is deliverable to the pressure reservoir (5) via an inlet
valve (6).
- 25 4. The percussion mechanism in accordance with claim 3, characterized in
that the quantity of the delivered gas and thus the pressure exerted on the striker
(2) are controllable.
- 30 5. The percussion mechanism in accordance with one of claims 3 or 4,
characterized in that a pump device (7) is provided, which delivers the gas to the
pressure reservoir (5).
6. The percussion mechanism in accordance with claim 5, characterized in
that the pump device (7) is located in the hand power tool.
7. The percussion mechanism in accordance with one of the foregoing claims,

characterized in that the pressure reservoir (5) has an outlet valve (8), which limits the gas pressure to a predeterminable maximum value.

- 5 8. The percussion mechanism in accordance with claim 1, characterized in that the blocking time of the blocking element (10) is controllable as a function of a fixedly predetermined or user-selectable striking frequency and/or as a function of the pressure level in the pressure reservoir (5).